

May 2001

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Backup & Restore for *iPAQ* Pocket PC

- *Abstract:* This White Paper describes the tools available to protect data and applications stored on the *iPAQ* Pocket PC.

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Backup and Restore for *iPAQ* Pocket PC
White Paper prepared by *iPAQ* Mobile Solutions

Second Edition (May 2001)
Document Number 14SZ-0501B-WWEN

Introduction

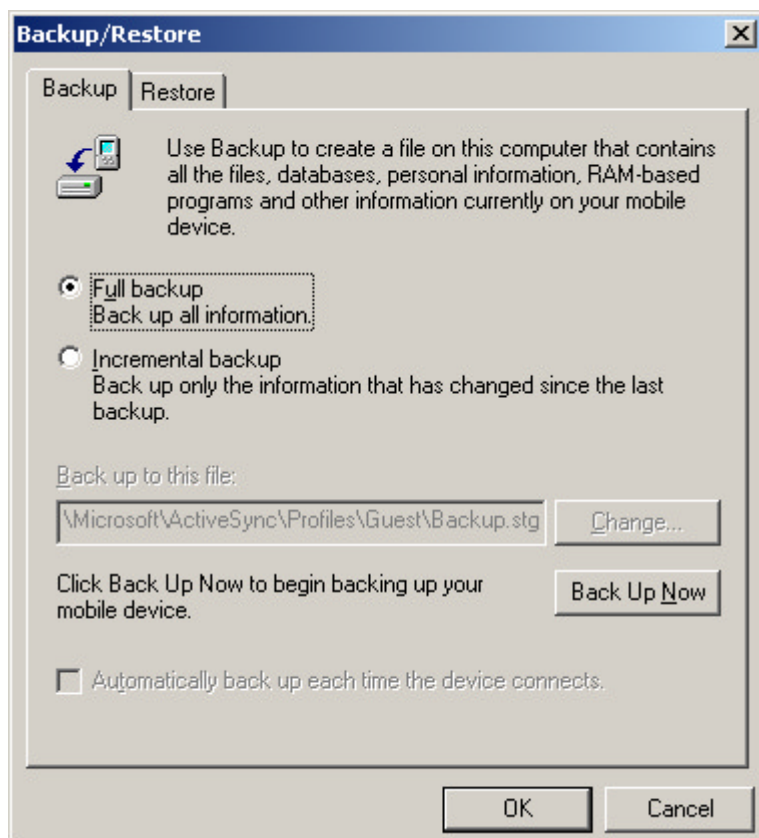
This White Paper describes the comprehensive tools available to protect data and applications stored on the *iPAQ* Pocket PC.

Microsoft ActiveSync Backup

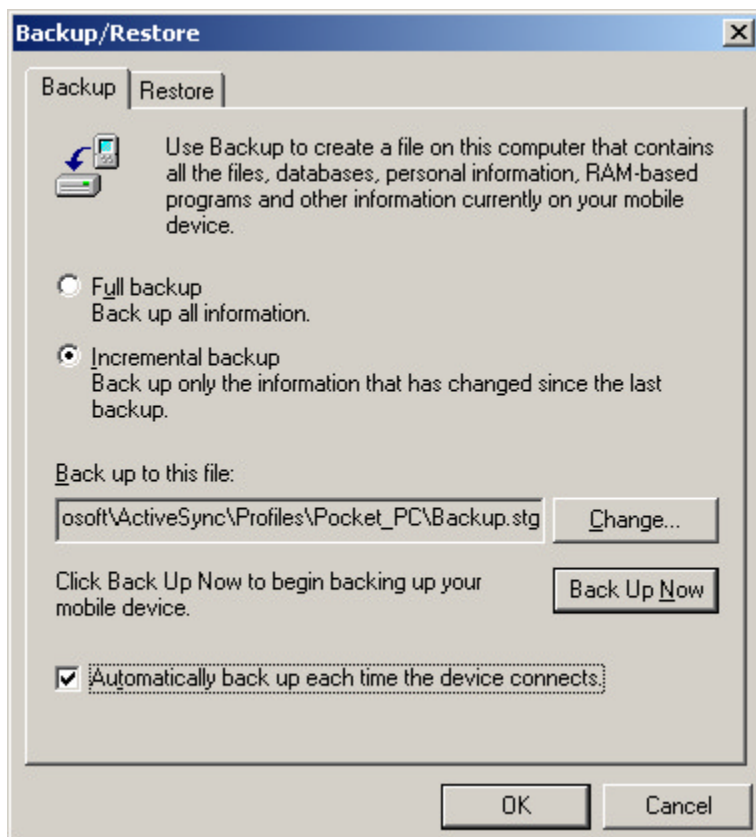
Microsoft ActiveSync provides comprehensive backup/restore functionality, storing the Pocket PC applications and data in the “backup.stg” file in a folder on your PC. This backup supports both “full” and “incremental” backup operations.

- **Full Backup**
Creates a copy of all data in the *iPAQ* Pocket PC RAM on your PC. The time this operation takes depends on the speed of the ActiveSync connection and how much data resides on your *iPAQ* Pocket PC.
- **Incremental Backup**
Updates the backup file stored on your PC with the data that has changed on the *iPAQ* Pocket PC since the last backup operation. This backup will complete in a much shorter time than a full backup.

We recommend that you perform a Full backup the first time you enable backup operations. This is accomplished via the following dialog settings. This dialog is displayed when you select the **Tools, Backup/Restore** menu option.



Once you have performed a full backup for the first time by clicking the Back Up Now button, we recommend that you configure the Backup feature with the Incremental Backup selection, so that you don't have to remind yourself to backup your data and applications. This can be accomplished via the following dialog settings.

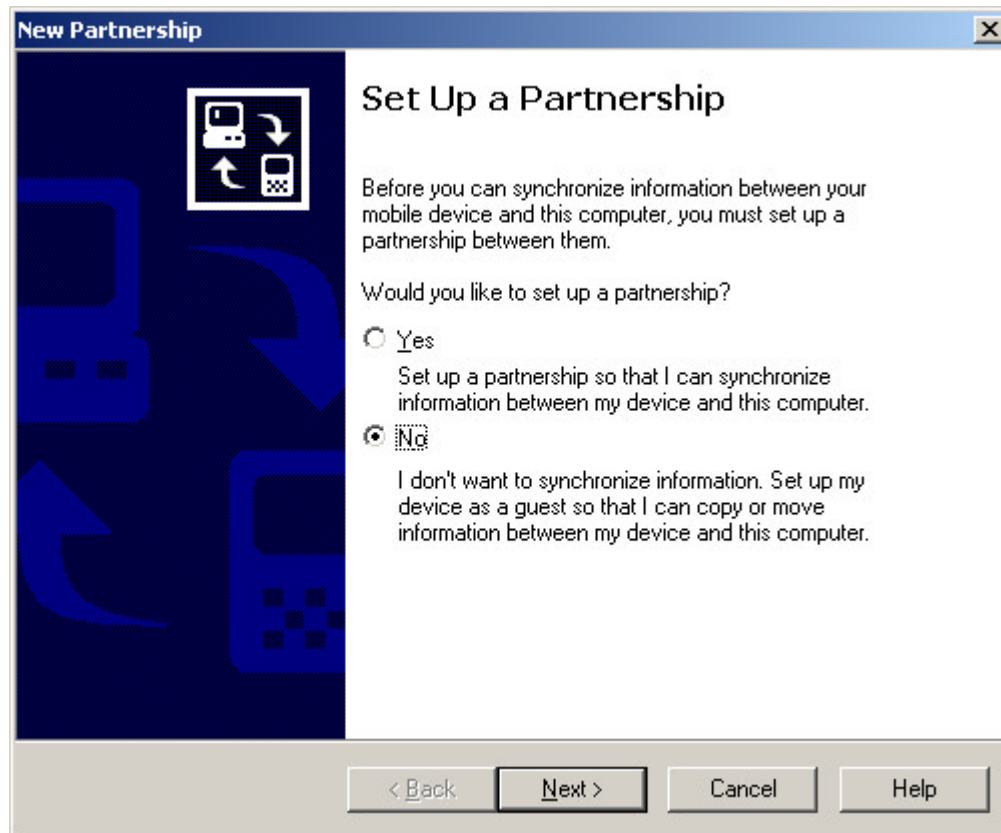


With these settings, every time you cradle your *iPAQ* Pocket PC, it will not only synchronize your data, but it will determine the things that have changed since the last backup and update the backup file on the PC.

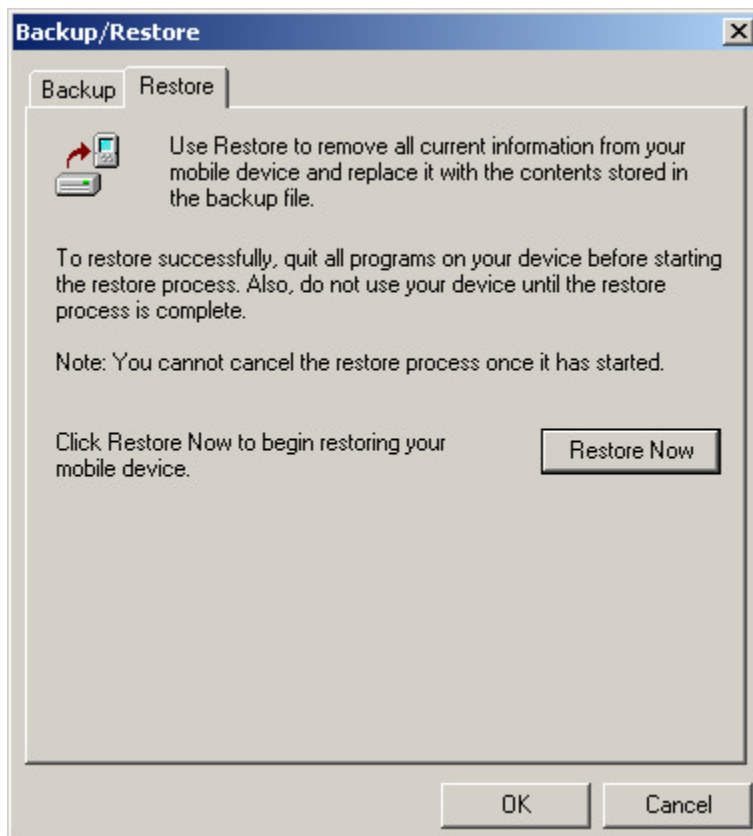
Microsoft ActiveSync Restore

In the event of a total data loss on the *iPAQ* Pocket PC, you can restore the device to the state of the most recent backup using the following steps:

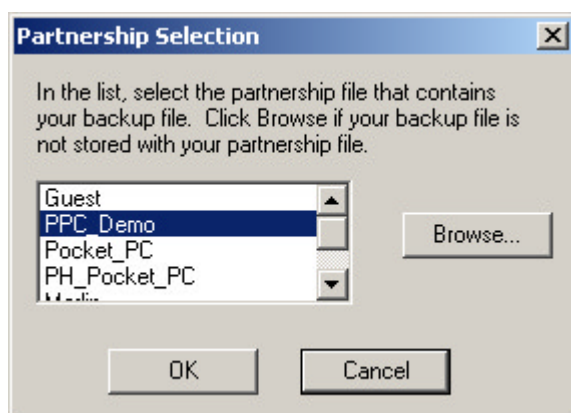
1. Connect to the host by attaching the *iPAQ* Pocket PC to the cradle or cable. You will see the following dialog on the PC. Select “No” to connect as a guest, then click “Next.”



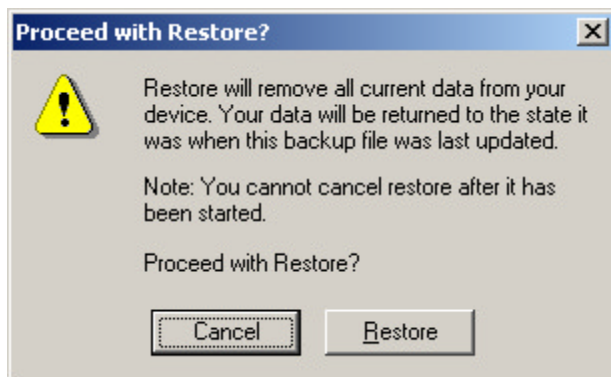
2. Select the restore operation in Microsoft ActiveSync on PC via the Tools, Backup/Restore menu option, and then select the Restore tab to display the following dialog.



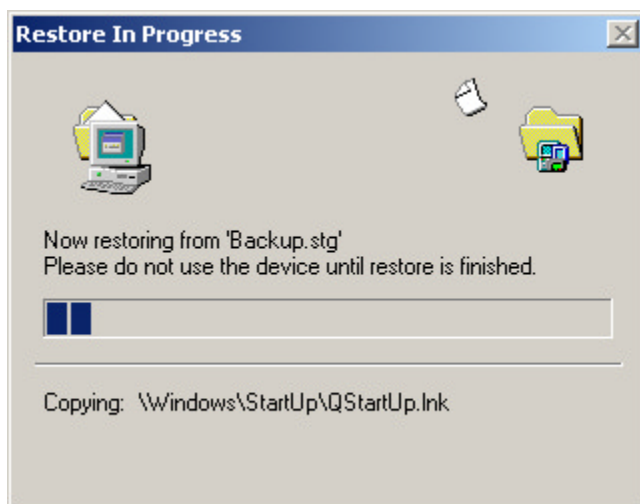
3. Click the Restore Now button to initiate the Restore process. This will cause the following dialog to appear, allowing you to select the partnership that you wish to restore. Select the correct partnership then click OK.



4. You will then receive a warning indicating that you will be erasing all data on your *iPAQ* Pocket PC and restoring a previous image of applications and data to the device. This is explained in the dialog



5. Click Restore to commence the operation.



6. When the Restore operation is complete, you will see this dialog that asks you to remove the device from the cradle and perform a Soft-Reset.

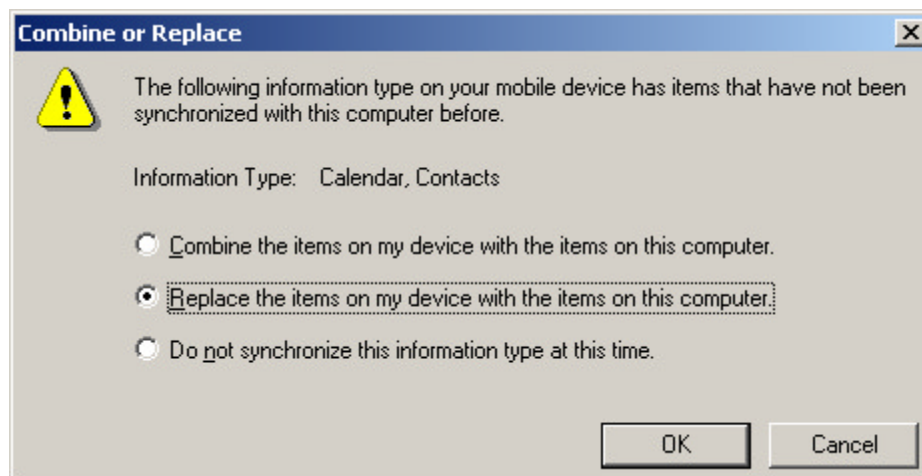


7. Once the device resets and you have performed the touch panel alignment configuration and skipped through the remainder of the first-time device configuration screens, you now put the device in the cradle to allow it to synchronize the restored partnership with the PC.

You will always see the following dialog, it's a by-product of the restore process.

Warning: The default selection of “Combine the items...” will likely result in duplicate appointments in your calendar.

We recommend that you select the option shown in the dialog below to avoid duplication of data



8. Once ActiveSync completes, you have finished restoring your iPAQ Pocket PC.

Compaq Backup

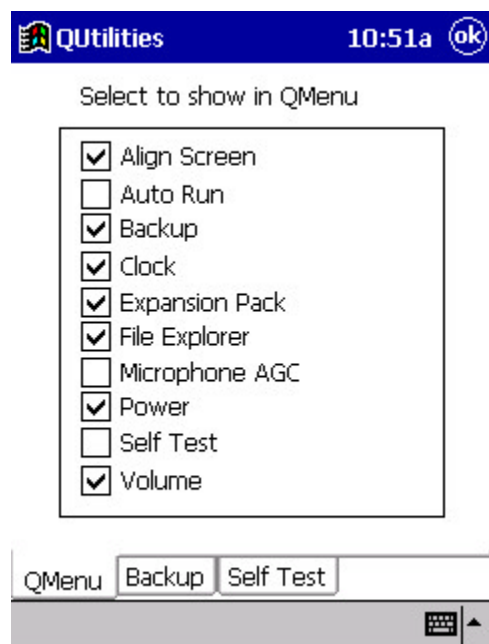
Compaq *iPAQ* Pocket PC provides a backup to a storage card (e.g. Compact Flash) as part of the Q Utilities that are installed in ROM. This utility supports “full” backup operations for the applications and data stored in RAM on the Pocket PC.

- **Full Backup**

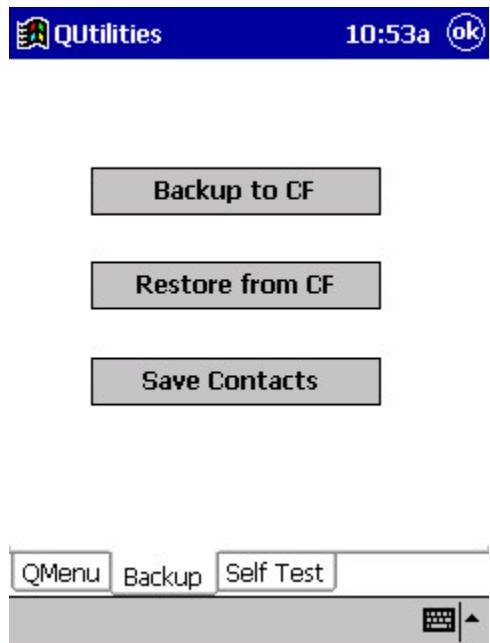
Creates a copy of all data in the *iPAQ* Pocket PC RAM on an optional storage card. The time this operation takes depends on the speed of the storage card interface and how much data resides on your *iPAQ* Pocket PC. However, it’s going to be significantly faster than the ActiveSync method over USB or Serial.

The benefit of using the Compaq Backup feature is that you can easily carry your backup data with you on an optional Compact Flash card or miniature hard disk, so that you can restore while away from your office PC.

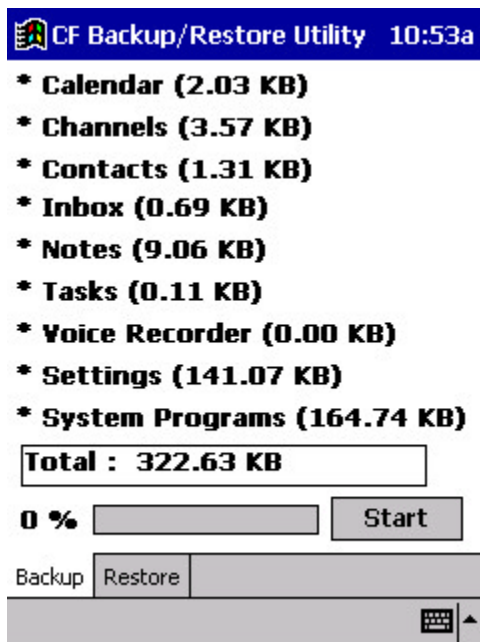
1. Initiate the Backup operation by starting Q Utilities (tap on the red Q in the status bar on the Today screen). This will cause the following dialog to appear.



2. Now, tap the Backup tab to display the following dialog.

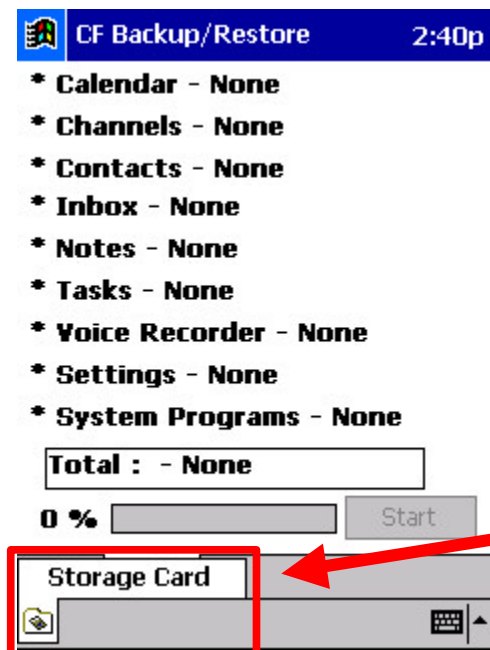


3. Tap on the Backup to CF button to see the summary of what will be backed-up. If you have a ROM version earlier than 1.69 you will see this screen. Continue to step 4.



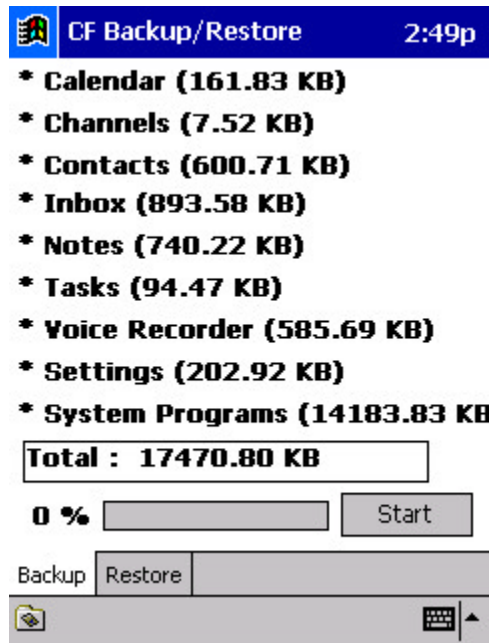
If you have a ROM version 1.69 or later you will see the following screen, with the addition of a folder icon in the lower left. Select the card or slot you will use for the backup. If you are using the optional Dual-Slot PC Card Expansion Pack, slot 1 is called “Storage Card,” as in this example, and slot 2 is called “Slot 2.”

Notice that the sizes for all items indicate “None” until you select the storage card you wish to use. This is a mandatory step.



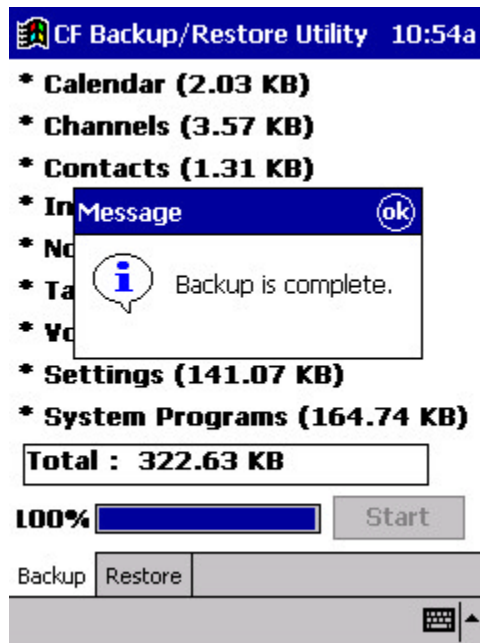
Select the card/slot you will use for the backup – even if there is only one slot available in your Expansion Pack.

Once you select the storage card to use, you will see the sizes of all items as shown below. This indicates the operation is ready to proceed.



4. Now tap the Start button to commence the backup operation.

5. Wait for this dialog box, indicating that the backup is complete.

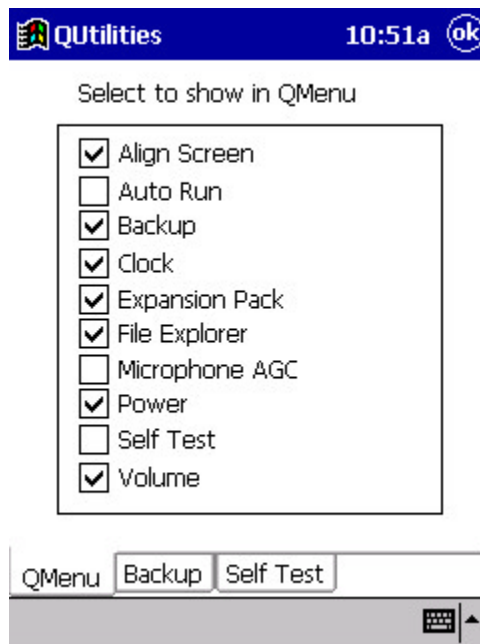


6. You can now resume normal operation; your applications and data are safely stored on the storage card.

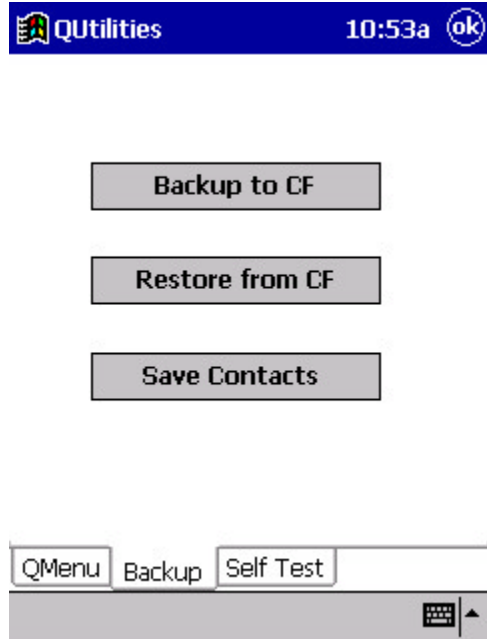
Compaq Restore

In the event of a total data loss on the *iPAQ* Pocket PC, you can restore the device to the state of the most recent backup using the following steps:

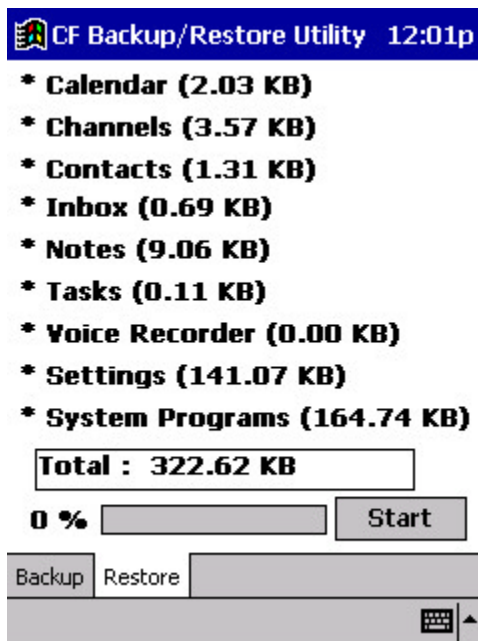
1. Start Q Utilities (tap on the red Q on the Today screen) to display this dialog.



2. Tap on the Backup tab to display this dialog.

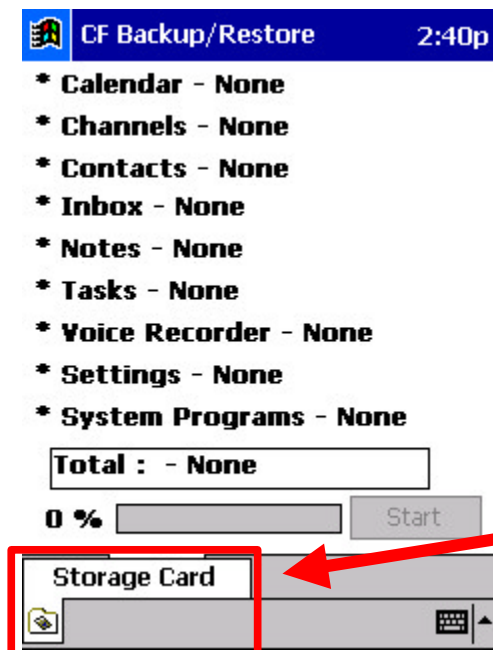


- Ensure that the storage card with the latest Compaq Backup is connected to the *iPAQ* Pocket PC and then tap the Restore from CF button. If you have a ROM version earlier than 1.69 you will see the following screen. Continue to step 4.



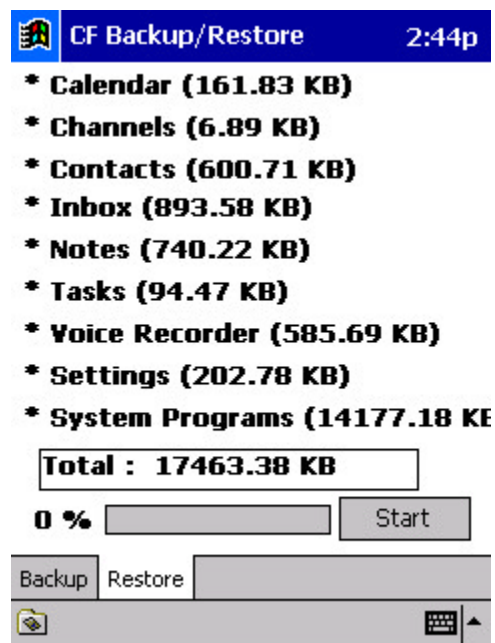
If you have a ROM version 1.69 or later you will see the following screen, with the addition of a folder icon in the lower left. Select the card or slot you will use for the restore operation. If you are using the optional Dual-Slot PC Card Expansion Pack, slot 1 is called “Storage Card,” as in this example, and slot 2 is called “Slot 2.”

Notice that the sizes for all items indicate “None” until you select the storage card you wish to use. This is a mandatory step.

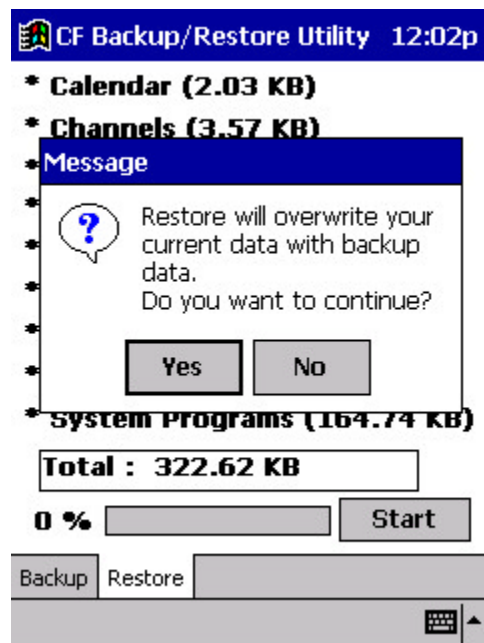


Select the card/slot you will use for the restore – even if there is only one slot available in your Expansion Pack.

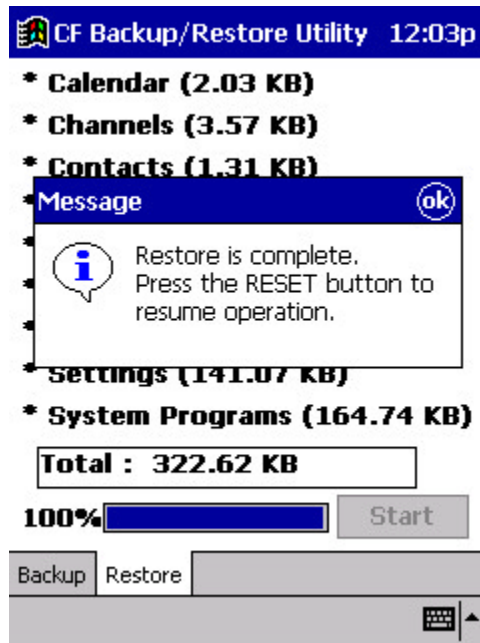
Once you select the storage card to use, you will see the sizes of all items as shown below. This indicates the operation is ready to proceed.



4. Tap on the Start button to initiate the Restore process. You will be informed that this operation will overwrite any data or applications currently on the iPAQ Pocket PC. Tap on Yes to start the Restore.



5. Wait for the Restore operation to complete, as indicated by this dialog appearing.



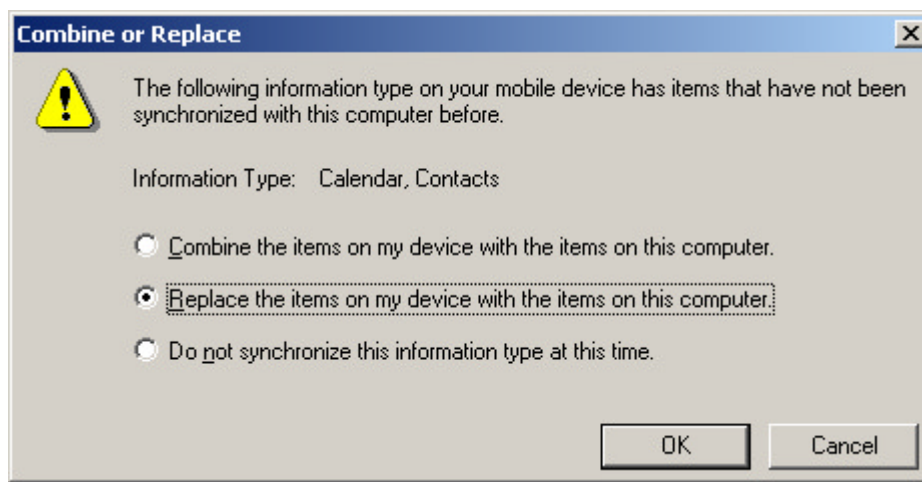
6. Now Soft-Reset the *iPAQ* Pocket PC and then update the date and time using the Clock Control Panel Applet.

7. Now attach the Pocket PC to the cradle or cable to synchronize the restored partnership with the PC.

You will always see the following dialog; it's a by-product of the restore process.

Warning: The default selection of “Combine the items...” will likely result in duplicate appointments in your calendar.

We recommend that you select the option shown in the dialog below to avoid duplication of data



8. When ActiveSync completes, you have finished the Compaq Restore process.